



BADGER STATE Smoke Signals



Serving Amateur Radio in Wisconsin

Published Monthly Since 1969

Vol. 14 No.9

175th Consecutive Monthly Issue

Baraboo Wis.

SEPTEMBER 1984

A GEARVAKF CONSTRUCTION ARTICLE:

From GEARVAKf Bulletin

Adding a "MAGIC EYE" tuning tube to the TS-930

As most owners know, the Kenwood TS-930 is a fine rig with the exception that the built-in S-meter is poor in appearance and awkward to use. With little difficulty, however, the S-meter can be replaced by a sophisticated, green "magic eye" tuning tube as used in Gonset Communicators in years past.

The electrical changes are simple: Follow the schematic in figure 1. The existing S-meter can be removed with a pry-bar or wood chisel. The front panel opening is then enlarged with a rat-tail file, and the "magic eye" tube is fixed in place with white "medical" adhesive tape.

Use tinsnips to cut an empty Sucrets can to form a new bezel. Paint it grey for a professional appearance.

The filament transformer for the 6ES tuning tube can be obtained from any junk TV set and mounted on the top cover of the transceiver, 2-1/4 inches in from the right rear corner.

-- N4GG

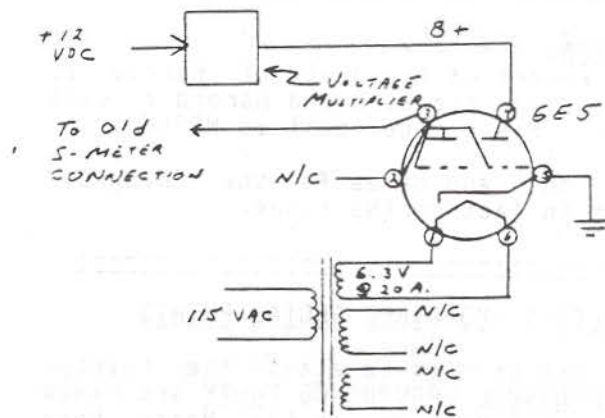


Figure 1

Badger State Smoke SignalsOfficers:

Ken Ebnetter, K9EN, Chairman
 Jim Romelfanger, K9ZZ, Editor
 Jim Decker, WB9UQT, Treasurer

Send editorial material and
 exchange papers to:

Jim Romelfanger, K9ZZ, Editor
 Rte. 1, Box 770
 North Freedom, WI 53951-9799

Subscriptions:

1 yr. \$ 6.00
 2 yr. 11.50
 3 yr. 17.00

to:

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 P.O. Box 337
 Baraboo, Wisconsin 53913-0337

Send address corrections and
 changes to:

Kenneth A. Ebnetter, K9EN
 822 Wauona Trail
 Portage, Wisconsin 53901

Permission is granted to re-
 print items from BSSS provid-
 ing credit is given to the
 author and Badger State Smoke
 Signals.

ERRATIA:

Our report on the death of Harold E. Nelson and his wife had Harold's call wrong. His correct call is WB9QMX.

Also our apologies for the "naughty" typos in last month's issue.

SWAPFESTS AND OTHER SOCIAL EVENTS

You are invited to attend the thirty-sixth ANNUAL GROUND HOG PARTY and renew old acquaintances at the Moose Home (by-pass 16 and 109) in Watertown, Wisconsin on Saturday October 13, 1984. This invitation is extended to ALL Hams, SWLers and their XYLs, XLS and friends. It has been the re-union of Amateur Radio Operators for the past 36 years. Please make the thirty-sixth a success with your attendance. We'll be looking forward to seeing you. \$7.00 per plate, family style Swiss Steak. Reservation deadline, Midnight, October 10, 1984. Send reservations to Theron (Teen) Norbury, W9LUB, Tr. 1, Box 153, Watertown, Wisconsin 53094. Phone: (414) 261-0637.

The KMRA ANNUAL HAM, COMPUTER AND VIDEO FEST will be held Sunday, October 14, 1984 at 8:00 a.m. in the Waukesha Exposition Center, Wwys. F and E1, Waukesha, WI. Inside location. Free parking. Reserved 4' table \$3.00 (held until 11 a.m. only). Admission: \$2.50 advance or \$3.00 at the door. Reservations accepted until 10/1. Send in early to: KMRA, ARC., P.O. Box 411, Waukesha, WI 53187. S.A.S.E. required. (ed. note: Sorry to be late with the above information but it was only recently received from KMRA.)

The 12th FORT WAYNE (INDIANA) HAMFEST sponsored by the Allen County Amateur Radio Society, Inc. will be held on Sunday, November 11, 1984 at the Allen County Memorial Coliseum, Coliseum Boulevard (U.S. 30) at Parnell Avenue. Advance Tickets \$3.00 or \$3.50 at the door. Tables \$8.00, premium tables \$20.00 (NO table sales at the door!). Ticket and table deadline is October 20. Hear the infamous "HAM BAND" again under the direction of Luke Matthew, WB9EWJ. For tickets, tables or more information, contact: Hamfest Chairman AC-ARTS, P.O. Box 10342, Fort Wayne IN 46851.

Planning is under way for the 14th Annual Midwinter Swapfest sponsored by the West Allis Radio Amateurs Club scheduled for Saturday, January 12, 1985.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages, and/or we can include your flyers. For information on rates and requirements for our advertising pages, and/or for including flyers, please contact K9ZZ or K9EN.

CLUB MEETINGS:Kettle Moraine Radio Amateurs:

All meetings are held on the SECOND (2nd) Friday of each month.

Madison Area Repeater Association

The 1984 Christmas party has been booked for Monday, December 3rd, at the Hilltop Inn between Cross Plains and Pine Bluff. Cost: \$3.00 per person. Send reservations by December 1 to Clyde, W9HSY, MARA, P.O. Box 3403, Madison, Wisconsin 53704.

Milwaukee Radio Amateurs Club:

All regular meetings of MRAC are scheduled for 1984 at Wauwatosa Savings and Loan Building, 7500 West State Street, will be held on the second Thursday of the month. Oct. 11 and Nov. 8.

QCWA - Wisconsin Chapter 55

The fall dinner meeting will be Saturday October 6, 1984 at the Holiday Inn, 2417 Bluemound Rd., Waukesha, WI. Registration begins at 11:00 a.m. with buffet dinner at noon. There will be an election of 4 directors and the usual auction so bring a couple of goodies from your "Junque box".

West Allis Radio Amateurs Club

Regular meetings are held on the second Tuesday of each month at St. Francis Savings, 9330 W. Greenfield Ave., at 8:00 P.M.

The Wisconsin Valley Radio Association (Wausau)

Holds regular monthly meetings on the first Tuesday of the month at 7:30 p.m. The location varies, but information is available on the 146.04/64 repeater in Wausau.

Yellow Thunder Amateur Radio Club:
(Baraboo, WI)

All regular meetings of YTARC are held in room 34 of the Baraboo Civic Center. Oct. 16, Nov. 14, Dec. 13.

Let us know of your club meeting dates, and we will let others know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

=====

MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS
Oh what the heck -- items of interest:

Four Lakes Amateur Radio Club
THE FEEDLINE

I think all in all, FIELD DAY went very well this year. From what I saw while I was there, everyone had a good time. The weather was great, and for the first time in many years, we had super -- super TV coverage. We were on all three local TV stations at least twice.

For those who weren't there, talk to somebody that was, find out how much fun they had and plan on attending next year. I don't think you'll regret it.

-- KC9LM, co-chairman

Kettle Moraine Radio Association
KETTLE DRUMS

Field Day has come and gone. Bruce Herrick, K1TMM should be congratulated on organizing a winning team. His public relations was a Grand Slam, with getting us coverage on two local T.V. stations. Also the other station Captains: Ken Secora, N9KS, at the multiband CW station, Gary Sutcliffe, W9XT, at the 40 meter CW station, Burce at the multiband phone station, Joe Lindsay III, KA9RFR, at the Novice/Technician station and all others who operated, logged, duped, cooked, drank, helped setup, cleanup, cheerup, wakeup, or messup the Field Day site.

Wisconsin Nets Association

For news of the WNA see the WNA section of Smoke Signals.

Yellow Thunder Amateur Radio Club, Inc.

For news of the YTARC see the YTARC section of Smoke Signals.

Our thanks to the above-mentioned clubs and their bulletins for the information presented. Badger State Smoke Signals will be pleased to exchange bulletins and information with your club. Please contact K9ZZ or K9EN.

=====

RICHARD NIXON SEEKS WHITE HOUSE POST

From GEARVAKf Bulletin

At a clandestine hideout meeting last Wednesday, an unnamed source told GEARVAKf Bulletin reporters that former President Richard M. Nixon is looking for a White House post to make his retirement years more meaningful. The post he would like to have, says the unnamed source, is one of those that hold up the roof on the North Portico at the White House. President Nixon wants the post to use in the redecoration of his New York condominium apartment.

=====

HYSTERICAL NEWS

From SarC SparC (Scottsdale AZ)

Arizona historians point out with pride that it was an Indian Chief from this state who first thought of installing electricity in the tribal washrooms. And so he became the first Indian ever to wire a head for a reservation.

YELLOW THUNDER AMATEUR RADIO CLUB

The September 17, 1984 meeting of the Yellow Thunder Amateur Radio Club was called to order in room 34 of the Baraboo Civic Center at 7:30 p.m. by President Art Kleefisch, W9WSS.

The following members were present

Ken Ebnetter, K9EN	Portage
Art Kleefisch, W9WSS	Baraboo
Art Escher, WA9WUS	Lodi
Bill Hommel, KA9QFJ	Baraboo
Harry Mayland, K9FFT	Baraboo
Jim Decker, WB9UQT	Baraboo
Jim Romelfanger, K9ZZ	North Freedom
Peter Sweeney, WD9JIB	Reedsburg

The minutes of the previous meeting were approved as printed in Smoke Signals. The treasurers report was read and accepted.

President Art Kleefisch, W9WSS, reported that he delivered the memorial contribution on behalf of silent key Elwyn Harris, W9YPP, to Mrs. Harris.

The Modern Woodman Walkathon, sponsored by the Sauk County Association for Retarded Adults will be held October 6, 1984, and they have asked Jim Decker, WB9UQT for assistance from Amateur Radio.

The Durlin Cox high voltage demonstration was described by those who had the good fortune to have been able to attend.

Old business:

The Yellow Thunder Novice Classes will begin Thursday October 4 in Room 30 of the Baraboo Civic Center. 13 dates have been reserved through January 1985. Classes will start at 7:00 p.m. and run to 9:00 p.m.

The annual fish dinner will be held (was held) September 28, 1984 at Pierces Supper club. Ken, K9EN was authorized to purchase a few prizes for the dinner.

No new business:

The door prize drawing for \$2.00 was held with Jeremy Wight, WB9NVI being selected by Art's calculator. He was not present, so next month the drawing will be for \$3.00.

The October 16, 1984, meeting will feature a slide presentation on county hunting by Ken Johnson, K9DZG. (Ken will also present this program to the FLARC meeting on November 6.)

The meeting was adjourned by President Art Kleefisch, W9WSS.

The program following the meeting consisted of reviewing the slides and photos in preparation of the program to be presented at the annual fish dinner.

Respectfully submitted
Ken Ebnetter, K9EN, Secretary.

YTARC NOVEMBER MEETING NOTICE

The next meeting of the Yellow Thunder Amateur Radio Club will be held October 16, 1984 at 7:30 p.m. in Room 34 of the Baraboo Civic Center in Baraboo Wisconsin. The program will feature a slide program on county hunting by our own county hunter, Ken Johnson, K9DZG.

BIRTHDAZE

No YTARC members are celebrating their birthdays in October, but we will have a goodly bunch of lucky members coming up in November.

YTARC GOES FISHING

The YTARC annual Fish Dinner was held at Pierce's Supper Club in Baraboo on September 28, 1984. The fish was served promptly (all you could eat - family style) and was the excellent product we have come to expect from Pierce's.

Following the meal, a program of slides, photos, and QSL cards was presented in commemoration of the completion of 15 years of YTARC activity. The slides were described by Jim, K9ZZ. (I still don't understand how he can keep all those faces, names and calls straight.)

Following the program, there were several prizes awarded, including watches, clocks, tools, flashlight and assorted nuts. An ARRL handbook was donated by K9EN and the ARRL donated an Antenna Handbook.

Although the number attending was small, everyone there had a good time.

---K9EN

From the ARNS Bulletin:

Then there was the butcher who backed into the meat grinder and got a little behind in his orders.

Then there was the principal who had to dismiss the cross-eyed teacher because she had no control over her pupils

WISCONSIN NETS ASSOCIATION LTD..

WISCONSIN NETS

NET	WNA	FREQ	UTC	LOCAL	MANAGER
BWN	YES	3984	1100Z	0600	WD9IID
BEN	YES	3985	1700Z	1200	WB9ESM
WSDN	YES	3985	2230Z	1730	WA9ZTY
WNN	YES	3723	2300Z	1800	KA9QBP
WSSN	YES	3645	2330Z	1830	KC9CJ
WIN-E	YES	3662	0000Z	1900	WB9ICH
WNTN	YES	34/94	2330Z	1830	N9BDL
WNTN	YES	31/91	2330Z	1830	N9AUG
GR.BAY	NO	72/12	0145Z	2045	WB9NRK
			THU	WED	
WRN	NO	3620	0200Z	2100	K9UTQ
	RTTY		Mon. Wed. Fri.	UTC	
			Sun. Tue. Thu.	Local time	

WNA HONORS K9FHI

The following are the remarks of Denny, K9LBU, as he made a special presentation to K9FHI on behalf of the Wisconsin Nets Association, Ltd. at the annual picnic in North Wood County Park on September 15, 1984.

REMARKS FOR K9FHI AT WNA MEETING
By K9LBU

On behalf of the Wisconsin Nets Association, Wisconsin's Amateur Radio Clubs, and all Amateurs throughout the state, I am pleased to take this opportunity to honor a man whose kindness, concern, and tireless dedication has been an inspiration to us all.

Throughout his term as Section Communications Manager--- now known as Section Manager--- there were plenty of changes. The ARRL changed, the FCC rules changed, Section appointees changed, let members changed, call signs changed, and the state of the art changed--- but one thing did not change.

ROY PEDERSEN, K9FHI

continued to love Amateur Radio and to love Radio Amateurs. Under his careful guidance, Ham Radio has flourished in his state, and the service it provides as steadily improved.

Whether it was at hamfests, swapfests, club meetings, or on the air, Roy (with the cooperation of his understanding wife, Beryl) gave us his very best efforts.

I have known Roy for a long time, and for all that time I have considered him a personal friend. He has made me feel special. I know that I am not alone in that feeling of friendship, because Roy has made each of us feel special.

It is because we recognize and appreciate the care Roy has shown to us and want, in some small way, to demonstrate our care for the special person he is that Amateurs from across our state present the following with our best wishes for continued happiness and success.

---K9LBU

(Denny then presented Roy with a plaque and a gift (a "Boom Box") from the WNA and the Amateurs of Wisconsin.)

THE AMATEUR RADIO CRYSTAL BALL

From Rich Regent, K9BDF
Section Manager WI
5003 South 26th Street
Milwaukee WI 53221

We're in the age called the "Artificial Intelligence Generation," where even Amateur Radio involves professional ideas and sophisticated equipment.

As experimenters, we may be able to help plan the technical future of Ham Radio.

Edmund Burke said, almost 200 years ago, "You can never plan the future by the past." So, if you're squinting for clues to the electronic future, don't look back at history. Anyway, here's a few headline ideas to ponder, but watch your step!

1. Satellite communications expands to include new modes of transmission for Ham Radio with stationary satellites. Manned orbiting satellites communicate with Hams on many bands.
2. Robot gadgets, low cost units can see, touch and reason, build Ham equipment.
3. Training programs and specialization in Ham Radio escalates at an unbelievable rate.
4. Superconductor technology vastly improves computer processing speeds and allows miniaturizing HF antennas.
5. Portable transceivers, one for 30-meter CW, and another for 20-meter SSB, use built-in telescoping antennas and have typical 500-mile range, become available and practical.

6. Desktop computers, with mainframe processing power, boast of random access memory chips with megabyte storage capacity are used for speech-synthesized voice communications on the Ham Bands. Periodicals, information, and current Ham data banks are freely available on-the-air, or by telephone, with modem-equipped computers.

7. Ham equipment prices stay about the same, but more options are included in the standard units. Electronic components become scarce and expensive.

8. Point-to-point Amateur Radio microwave repeaters use subcarriers to relay electronic mail, video, data, and voice, with guided-wave optics for local communications.

Amateurs have traditionally sought new ways to broaden the technological frontiers of Ham Radio, to develop unique methods to render public service, to sustain and strengthen Amateur Radio as a vital national and international resource.

If you can gaze into the Amateur Radio crystal ball and spot something of interest, please let us know about it.

-73, Rich, K9GDF

NEW SECTION RTTY NET TO BEGIN

Section Traffic Manager
Gene Santoski, K9UTQ
1220 18th St. S.
Wisconsin Rapids, Wisconsin 54494

Well another autumn season is upon us, the kids are back in school, static levels are on the decrease, and on the air activity is on the increase and the traffic nets are no exception. Historically, net activity picks up during the fall and winter months as we turn to indoor activities for the long evening hours that complement this time of the year.

With this in mind, I think it is a good time to consider the creation of a new net here in Wisconsin. With the many newcomers to home computing and the interfacing of these marvelous machines to our Amateur Radio activities, many fellow Hams are finding out the fun and excitement of an additional mode of on the air activity --RTTY.

Though not new to Amateur Radio activities, RTTY (or radioteletype) is fast becoming more and more prevalent because it is quite easy to get on the

air with this mode by using home computers and the proper interfacing and software. Thus, as you tune across the bands you can't help, but notice the marked increase in RTTY operations through the country.

Many of you who have been on the air for some time will recall that there was an RTTY net here in Wisconsin some years back but there wasn't the interest to help keep it flourishing. Time has changed all that and I think an RTTY net will survive because of the sheer number of Hams that are getting into this mode of operation.

For the past few weeks, I have made mention on the various nets of the proposed creation of a new RTTY net. Well, the time has come to get started. Beginning on Sunday, October 7th, at 9 p.m., we will use a frequency of 3620 KHz., 170 Hz. shift (mark high).

I would appreciate everyone getting the word out on this so that we can get as many RTTY enthusiasts as possible involved in this new net. To start with, we will meet 3 nites a week (Sunday, Tuesday and Thursday) and will expand operations if interest and activity warrant.

The 9 o'clock time slot should fit nicely into our Wisconsin/region net operations.

I will be reminding everyone of this new net on the various nets so as to generate as much interest as possible.

I feel it is of utmost importance to get something going in this area because the future of traffic handling is heading toward packet transmission and RTTY is a means toward that end. I would like to make Wisconsin known as one of the blocks in the foundation of this new frontier in traffic handling but I need your help.

I will be looking for a net manager as well as net control stations for this net. As time goes on and we have the proper liaison to region level nets, it will no doubt become an NTS/WNA affiliated net.

Get the word out and lets make this go!!!

Attention traffic people: Don't forget to check with your local EC to see what's planned for the upcoming Simulated Emergency Test (SET). Net Managers don't forget to submit a SET summary sheet to me ASAP after the exercise. Thats about it for now.

73 de Gene, K9UTQ
Section Traffic Manager

QST ABBREVIATIONS LIST...

Info from Rich Regent, K9GDF, SM WI
5003 South 26th Street
Milwaukee WI 53221

Don't forget to take a look at the updated list of over 300 abbreviations which appear in QST, January, 1984.

When you write an article for QST, or other League publications, keep the list handy for quick reference. It might even help you write an article. Using uniform abbreviations makes writing clear and concise.

By the way, the pages are printed back-to-back, so they're easy to remove and put in a folder, binder, or clip board.

73, Rich, K9GDF

FROM THE ARRL LETTER

Since September 15, the North American Teleconference Radio Net has been managed by the Midway Amateur Radio Club of Kearney, Nebraska, under the direction of its President Merlin "Mert" Feikert, WB0USW, Timothy Loenwenstein, WA0IVW, will be the new Net Manager.

The first TRN under the new sponsorship will be "Packet Radio: Overview and Prospective," on Sunday, December 2 at 7 p.m. EST. The speakers will be Lyle Johnson, WA7GXD, and Harold Price, NK6K.

Correspondence and requests for information on the North American Teleconference Radio Net should be addressed to TRN Manager, c/o Midway Amateur Radio Club, P.O. Box 1231, Kearney, NE 68847-1231. Please enclose an s.a.s.e. with your inquiry.

Attention repeater owners and operators: Register your repeater with ARRL Hq. by November 1 so it can be included in the 1985-1986 Repeater Directory. Listings from the current ('84-'85) edition will be carried over as they now appear unless an update comes in. Register your machine using form CD-240, available from Hq. for an s.a.s.e.

Attention ARRL Affiliated Clubs! As the new club season starts, you may wish to submit brief writeups and good-quality photographs on Fall activities to the Club Branch at Hq. We wish to recognize those clubs that are doing good work in their communities.

MORE FROM THE ARRL LETTER

The last call sign in each group to be assigned for the ninth district, as of September 12, 1984 was:

Amateur Extra	NB9T
Advanced	KD9KK
Technician/General	N9ETA
Novice	KA9SKY

WAUSAU RADIO OPERATORS CLUB CELEBRATES FIFTY YEARS:

Fifty years ago, in October, 1934, a group of Wausau Hams got together to form an Amateur Radio Club.

The first meeting of the Wausau Radio Operators Club, as it was officially named, was held in December. The club started with 14 charter members, and, since that time, several hundred Hams have passed through its ranks.

To celebrate the Golden Anniversary milestone of the club, a special dinner has been arranged.

Older members of the Club can enjoy eyeball QSOs with friends from years past, while newer and younger members will enjoy meeting the old timers, listening to wild stories of contacts and mishaps, and learning of the history and development of Ham Radio in Wausau.

You MAY even learn:

- (1) What item of non-routine business covered at the first meeting, in December, 1934, was still a topic of discussion in 1948?
- (2) What important service was provided for many years for the ninth call district by Wausau area Hams?
- (3) How did the Huber law affect club operation?
- (4) What downtown establishment occupies the site of a former club room -- and what function was performed at that site before it was a club room?

The entertainment at the Golden Anniversary dinner will NOT be technical nor Ham-related. The entire family can enjoy the entertainment at the dinner!

Cost for the dinner is \$8.00 for singles, \$15.00 for couples. It will be held Saturday, October 27th, at Chat's Valley Inn near Wausau.

Mailing address for tickets is:

John Burby
633 South Third Avenue
Wausau WI 54401

Chet's Valley Inn can be found by taking Highway 51 to its junction with County Highway N just south of Wausau, turning west onto N, and it'll be on your left, less than a mile from the turn-off. Social hour at 4 p.m., dinner at 6:00 p.m. HOPE TO SEE YOU!

(Above info from Ken, N9CPC)

Badger State Smoke Signals congratulates the Wausau Radio Operators Club on finishing fifty years of service to our hobby, and we wish them at least a hundredfold more! -k9zz, K9EN, WB9UQT, Iona, Nancy, Brenda, Don, Paul, Tashi, Missy and Becky.....

WANT ADS

FOR SALE: Swan 350 with power supply, VX-1 vox, two unused 6HF5 finals. \$300.00. Lew Sheerar, K9JPS, 126 Eau Claire Blvd., Wausau, WI 54401. (715) 845-7007.

Your ad can run here...For a mere fifty cents a line, you, too, can advertise in Badger State! Send your copy and humble remittance to Keeper of the Funds, Jim Decker, WB9UQT, P.O. Box 337, Baraboo, Wisconsin 53913-0337.

TWO-METER BAND EXPLOSION IMMINENT From GEARVAKf Bulletin

According to observations made at the GEARVAKf Scientific Studies Committee's Mr. St. Lishnus Observatory at Mt. Idy, Ohio, the two-meter Amateur band is in grave danger of violent destruction due to radio frequency overpressure. Said Studies Committee Chairp'son, Dr. Avruell U. Harnishe, co-discoverer of the Harnish-Lishnus Effect, "It seems to me that the two-meter band is on the verge of going ka-boom!"

Dr. Harnishe explained that the build-up of radio frequency overpressure has been going on for a long time, particularly since the marketing of supersensitive two-meter receivers incorporated in the thousands of two-meter transceivers sold. "What apparently is happening," said Dr. Harnishe, "is that the new receives are not taking very much RF energy out of the two meter band because they don't require much signal to produce good readability at the speaker."

On the other hand, Dr. Harnishe explained, "the old tube-type VHF receives took a lot of RF out of the air in order to reproduce a readable signal. That being the case," he went on, "an excess amount of RF has been building up on the two-meter band for many years due to the new, more sensitive receivers."

Although the RF levels have been building up, Dr. Harnishe believes that there was plenty of room on the band to accommodate the excess RF due to a certain degree of elasticity in the band. Also, he pointed out that there always has been a certain degree of leakage on the band which has acted as a safety valve, until now.

"What triggered the crisis," Harnishe said, "were two events: first was the launch of Oscar 10, which poured a great deal of downlink energy onto two meters for up to six hours per day without letup.

The second was the WSLFL operation from the spacecraft Columbia. During the space shuttle mission, so much RF was pumped into the two meter band by Hams wanting to QSO with Owen that the band was stretched beyond its elastic limit."

According to measurements made by Dr. Harnishe's Scientific Studies Committee Study Team, the two-meter band began to show stretch marks on the shuttle's 79th pass. By the time the mission ended, the danger of explosion was only averted by the cooling effect of frigid weather which overtook the country at the time.

Even though two-meter activity has returned to normal, the danger still exists because the newest crop of receivers are still more sensitive and required almost no RF in order to make a signal audible. That could cause a greater buildup of RF pressure on the band until it explodes. Said Dr. Harnishe, "An Explosion of the band will cause widespread damage to all adjacent VHF frequencies and might irreparably damage two-meters for all time.

The only remedy for this crisis," he said, "is either to short-circuit two-meters to ground -- something we haven't figured out how to do, yet -- or get everybody to listen on two meters, preferably with very old receivers, and not transmit for at least six months." Noting that in some areas of the country this practice has been given a successful try. Dr. Harnishe is advocating that repeater groups in all the big cities, particularly in and around Los Angeles, give the no-transmit idea a try. --WB7TGO

BADGER STATE SMOKE SIGNALS

SUBSCRIPTION INFORMATION

Dear Fellow Radio Amateur:

If you are not regular recipient of Badger State Smoke Signals, this sample copy is to introduce our publication to you and invite you to join our regular readers. Smoke Signals has been published monthly for over 14 years. Originally published as the club paper for the Yellow Thunder Amateur Radio Club, it has been for the past two years a state-wide publication.

Badger State Smoke Signals will carry current Amateur Radio news, news about YTARC, WNA, ARRL and other clubs and groups in Wisconsin as well. You will be kept apprised of what is happening in our hobby - locally, regionally, nationally and around the world. Among the many features will be Sentence Sermons, member birthdays, swapfest calendar, ARRL section news, humor and excellent feature articles by well-known Amateurs in Wisconsin and elsewhere. Reports will be included from ARRL Bulletins, ARRL Newsletters, and Westlink Reports, along with items of interest from exchange newsletters and the ARNS.

Regular individual subscription rates:

1 year	-	\$6.00 (12 issues)
2 years	-	\$11.50 (24 issues)
3 years	-	\$17.00 (36 issues)

If you wish to subscribe, please use the form below. Make checks or money orders payable to Badger State Smoke Signals. Send this form to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, Wis. 53913.

In addition to the above rates, a special reduced rate is available to clubs having 20 or more subscriptions per year at a rate of \$4.50 each.

Clubs wishing to participate in Badger State Smoke Signals with a column devoted to their club can receive a lower rate. Mailings must be made to the entire club membership and your club would receive a 15 percent additional complimentary mailings. (There are presently over 85 complimentary and exchange addresses on the mailing list in addition to the present subscribers.)

Less than 50 members	\$3.60 per year
Over 50 members	\$3.00 per year

Badger State Smoke Signals would be happy to serve your members as the official journal for your club. For information and requirements please contact Ken Ebner, K9EN, 822 Wauona Trail., Portage, Wisconsin 53901 -- (608) 742-3560

-----rip here-----

Jim: Enclosed is my check/money order for \$ _____. Please enter my subscription to Badger State Smoke Signals for _____ years.

Name _____ Call _____

Address _____

City _____ State _____ Zip _____

bsss 9-84

BADGER STATE SMOKE SIGNALS

Jim Romelfanger, K9ZZ, Editor
(see page two for exchange address)

.....
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PORTAGE WI 53901
.....

return address:

Kenneth A. Ebnetter, K9EN
822 Wauona Trail
Portage, Wisconsin 53901

There once was a youngster named Danny
Who said, "Give me work, I'll do any."
His ladder slid down..
He fell to the ground..
And said, "Ouch!", as he fell on his fanny.

--k9zz

DATED MATERIAL -- PLEASE DON'T DELAY

RETURN POSTAGE GUARANTEED

ADDRESS CORRECTION REQUESTED

THIRD CLASS MAIL